PCT





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:
C10L 3/10, B01D 53/26

A1
(11) International Publication Number: WO 00/56844

(43) International Publication Date: 28 September 2000 (28.09.00)

(21) International Application Number: PC

PCT/GB00/01070

(22) International Filing Date:

21 March 2000 (21.03.00)

(30) Priority Data:

9906717.5

23 March 1999 (23.03.99)

GB

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CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: METHOD AND APPARATUS FOR THE DRYING OF NATURAL GAS

(57) Abstract

A system for removing water from natural gas which comprises: bringing the natural gas into contact with a liquid including an absorbent for the water; subjecting the natural gas and liquid to turbulent mixing conditions thereby causing the water to be absorbed by the absorbent; and separating a natural gas phase with reduced water content and a liquid phase including the absorbent and absorbed water. The mixing is conducted in a turbulent contactor (11) including a gas inlet (15), a liquid inlet (16), an outlet (104) leading to a venturi passage (105) and a tube (106) extending from the outlet (104) back upstream. The tube (106) may be perforated and/or spaced from the periphery of the outlet (104).

